ABSTRACT

A processes which is industrially advantageous in producing antibacterial agents. An industrially advantageous process for producing an intermediate useful in producing antibactrial agents is provided by producing compound (VI-a) in accordance with the following reaction schema.

$$(IV-a) \begin{array}{c} COOR^5 \\ Y \\ COOR^6 \\ X^2 \\ Y \\ OOR^5 \\ (V-a) \\ H_3C \\ OOR^5 \\ (VI-a) \\ COOR^6 \\ (VI-a) \\ (VI-a)$$

A process for producing the compound represented by the above formulae and production intermediates thereof.